

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,986	03/11/2004	John F. Cooper	IL-11085	6284
	7590 05/02/200	7		
Eddie E. Scott Assistant Labor			WRIGHT, PATRICIA KATHRYN	
Lawrence Livermore National Laboratory P.O. Box 808, L-703 Livermore, CA 94551		/	ART UNIT	PAPER NUMBER
			1743	
	•			
	•	•	MAIL DATE	DELIVERY MODE
			05/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		•			
	Application No.	Applicant(s)			
	10/797,986	COOPER, JOHN F.			
Office Action Summary	Examiner	Art Unit			
	P. Kathryn Wright	1743			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 11 M	arch 2004.				
2a) This action is FINAL . 2b) This					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-59</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8)⊠ Claim(s) <u>1-59</u> are subject to restriction and/or €	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct	•				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:)-(d) or (f).			
 Certified copies of the priority documents Certified copies of the priority documents 		ion No			
3. Copies of the certified copies of the prior	• •				
application from the International Bureau	·	ou in this Hullottal Stage			
* See the attached detailed Office action for a list		ed.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Dail Dail Dail Dail Dail Dail Dail D				
Paper No(s)/Mail Date	6) Other:				

Art Unit: 1743

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-55, drawn to an apparatus for detection of contaminants in a fluid, classified in class 422, subclass 68.1.
- II. Claims 56-59, drawn to a method of detecting contaminants in a fluid, classified in class 436, subclass 52.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus can be used to practice another and materially different process, such as, mixing fluid within a conduit or sample cell like that disclosed in US patent No. 6,612,156 to Hakimuddin.
- 3. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification and require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Art Unit: 1743

4. In the event that group I is elected for prosecution, an election of one of the patentably distinct species (a-g) is also required. The species of group I are as follows:

- a. biological sensor array (claims 3-8, 54 and corresponding elements in 55);
- b. oxidizing agent sensing arrays (claims 2, 9-13, 53 and corresponding elements in 55);
- c. reducing agent sensing array (claims 2,14-18, 53 and corresponding elements in 55);
- d. toxic ion or compound sensing array (claims 19-39, corresponding elements in 55);
- e. sensor array that detects lost of chlorination shield (claim 40);
- f. sensor array that detects changes in redox potential (claims 41-42);
- g. sensor array having electrode(s) (claim 43-49).
- 5. The species of group I are distinct because the species as claimed are patentable over each other, and there is nothing of record to show them to be obvious variants. The search for each species is not required for the others.
- 6. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 52 are generic.
- 7. In the event that group II is elected for prosecution, an election of one of the patentably distinct species (a-e) is also required. The species of group II are as follows:
- a. sensing biochemical agents (claim 59);
- b. sensing biological agents (i.e., bacteria, viral, microbial, etc., in claim 59);
- c. sensing oxidizing elements or compounds (i.e., chlorine, oxidative oxy-halogen compound, etc., in claim 59);

Art Unit: 1743

d. sensing reducing agents (i.e., hyposulfite, thiosulfate, etc., in claim 59);

- e. sensing toxic ions or compounds (i.e., cyanide, selenium, etc., in claim 59).
- 8. The species of group II are distinct because the species as claimed are patentable over each other, and there is nothing of record to show them to be obvious variants. The search for each species is not required for the others.
- 9. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 56 is generic.
- 10. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

11. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

Art Unit: 1743

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to P. Kathryn Wright whose telephone number is 571-272-2374. The examiner can normally be reached on Monday thru Thursday, 9 AM to 6 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1743

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

pkw

Supervisory Patent Examiner Technology Center 1700